

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

## Beta Presentation

“Alexa- what’s my work schedule look like?”

### The Capstone Experience

Team Union Pacific

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M Kim

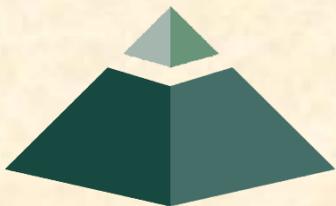
Austin McGee

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Spring 2018



*From Students...  
...to Professionals*

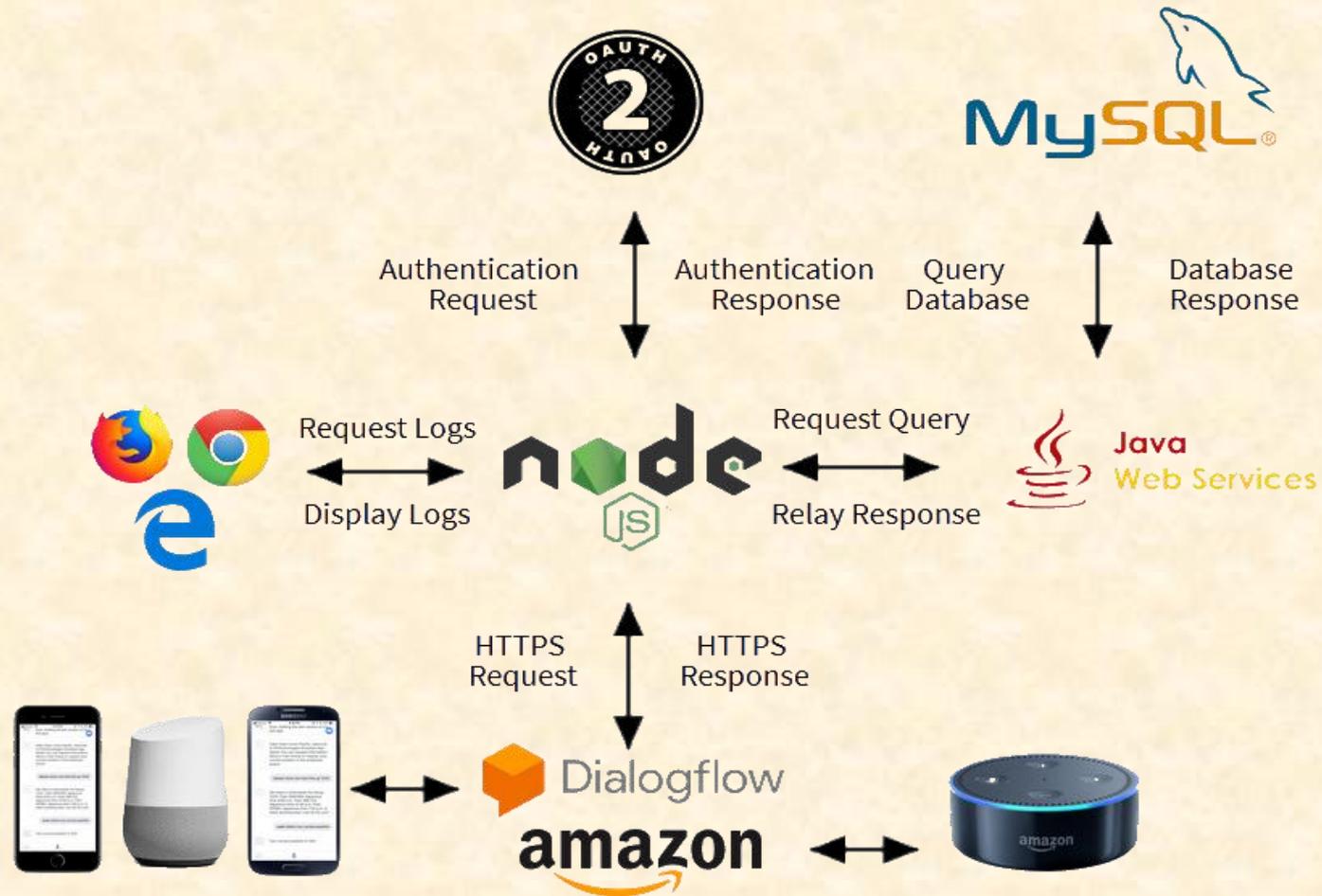
# Project Overview

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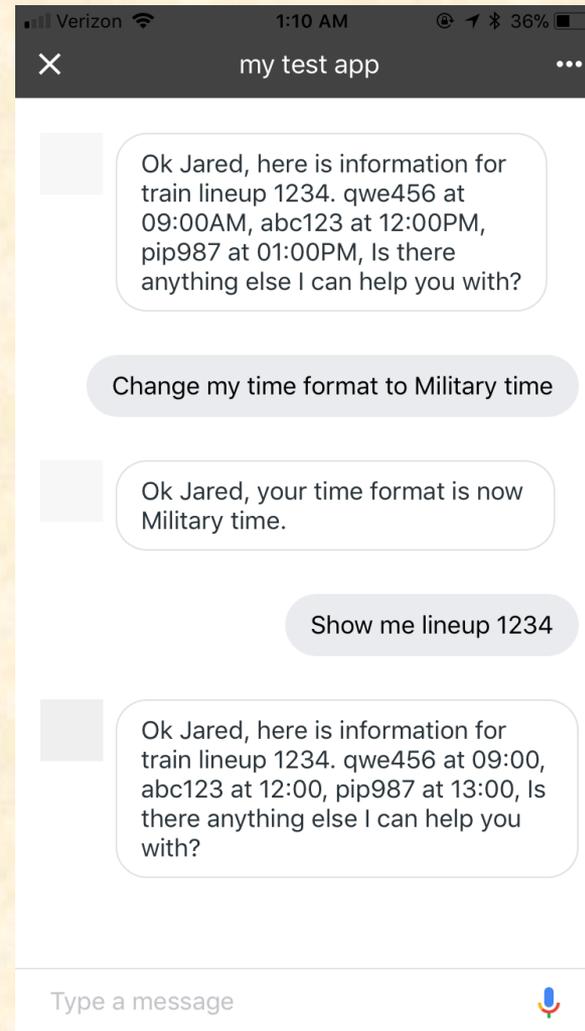
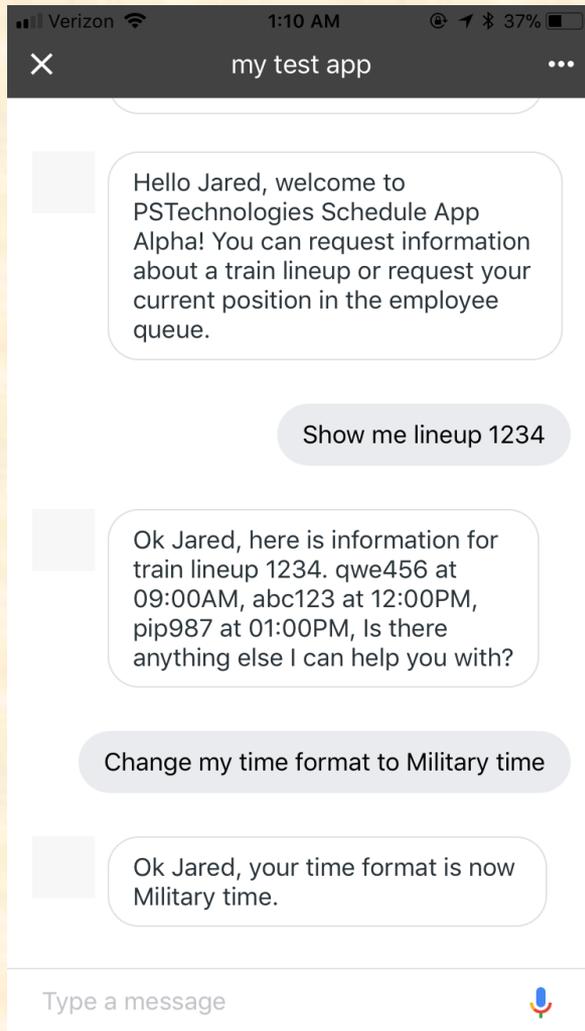
- Provide voice assistant applications for Google Assistant and Amazon Alexa to inform train drivers of their schedules
- iOS and Android mobile users can utilize the Google Assistant app
- Management has the ability to monitor usage statistics through a web application and generate pdf reports



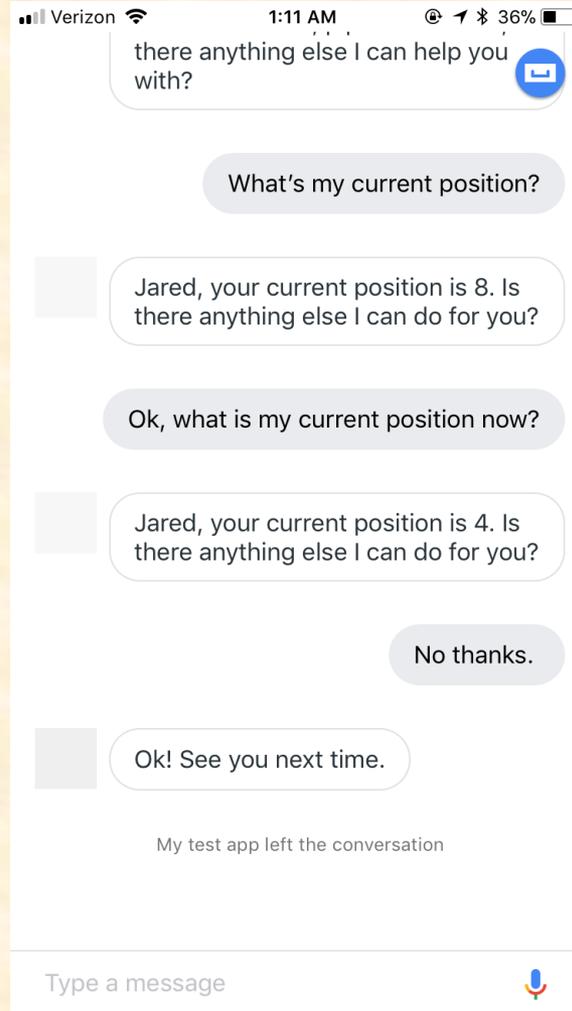
# System Architecture



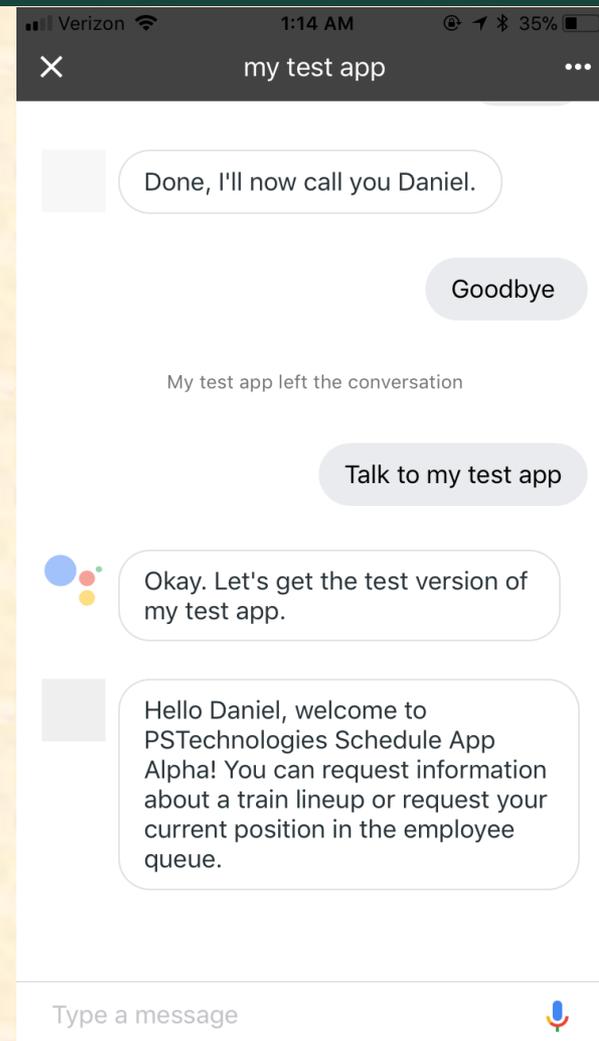
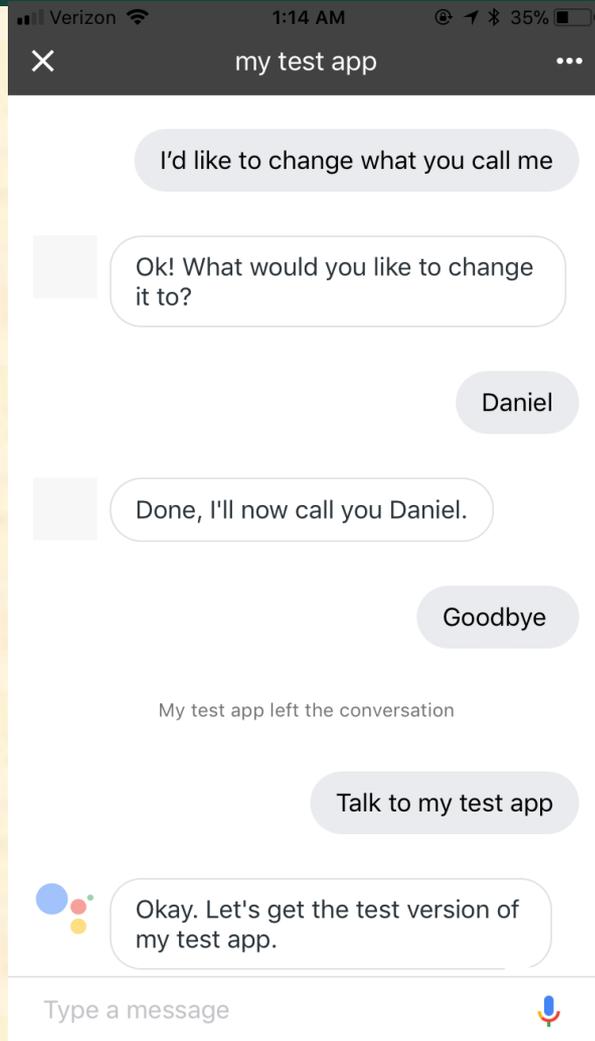
# Request Train Lineup



# Request Times Out



# Change Username



# Web App Dashboard

The screenshot shows a web browser window with the URL <https://www.tup-capstone.tk/reporting/landing.htm>. The page features a navigation bar with tabs for 'PST Landing Page', 'Assistant Log Report', and 'Shared Assistant Log Report'. A 'Welcome, mcm1139 admin' message is displayed in the top right corner.

The dashboard is divided into several sections:

- Total Number of Queries:** A line chart showing the number of queries over time for Amazon Alexa (blue line) and Google Assistant (orange line). The y-axis is labeled 'Number of Queries' and ranges from 0 to 100. The x-axis is labeled 'Time'. Both lines show an overall upward trend.
- Breakdown by Query:** A pie chart showing the distribution of query types. The legend indicates: Request Position (43%), Request Train Lin... (50%), Change Settings, and Failed.
- Generate Report:** A form for generating reports. It includes a 'Date Range' field set to '03 / 26 / 2018' to 'mm / dd / yyyy'. The 'Assistant' section has checkboxes for Amazon Alexa (unchecked) and Google Assistant (checked). The 'Queries' section has checkboxes for Train Lineup (checked), Position (checked), Settings (unchecked), and Failed (unchecked). A 'User(s)' field contains 'mcm1139'. There are 'Generate Report' and 'View Report' buttons.
- Administration Controls:** A section with three buttons: 'Add User', 'View Users', and 'Grant Permissions'.



# Usage Log Report

[PST Landing Page](#) x [Assistant Log Report](#) x [Assistant Log Report](#) x [Shared Assistant Log Repo](#) x [Shared Assistant Log Repo](#) x [Options](#)

<https://www.tup-capstone.tk/reporting/reporting.html> 90%

## Union Pacific Assistant Log Report

**Information**

Report Generated On	Report Generated By	Date Range	Assistants	Queries	Users	Share Report
Mon Apr 02 2018	mcmil139	2018-03-26 2018-04-02	Google	Train Lineup Positon	mcmil139	<a href="#">Share Report</a>

**Logs**

Date	Union Pacific ID	Raw Input	Intent	Assistant	Error
2018-03-30 00:54:48.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 02:19:03.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 02:19:52.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:00:48.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:02:17.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:04:03.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:05:13.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:05:56.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:13:52.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:15:21.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:17:43.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:18:22.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:18:56.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-31 20:40:01.0	mcmil139	whats my position	getEmpPosition	Google	
2018-03-31 20:45:57.0	mcmil139	show me lineup 5678	getTrainLineup	Google	
2018-03-31 20:46:36.0	mcmil139	WHat's my current position	getEmpPosition	Google	
2018-03-31 20:48:59.0	mcmil139	whats my position	getEmpPosition	Google	



# Shared Usage Log Report

PST Landing Page x Assistant Log Report x Shared Assistant Log Report x +

https://www.tup-capstone.tk/reporting/shareReport 90%

## Union Pacific Assistant Log Report

**Information**

Report Generated On	Report Generated By	Date Range	Assistants	Queries	Users	Shared By
Mon Apr 02 2018	mcmil139	2018-03-26 2018-04-02	Google	Train Lineup Position	mcmil139	agbaydan

**Logs**

Date	Union Pacific ID	Raw Input	Intent	Assistant	Error
2018-03-30 00:54:48.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 02:19:03.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 02:19:52.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:00:48.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:02:17.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:04:03.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:05:13.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:05:56.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:13:52.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:15:21.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:17:43.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:18:22.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-30 21:18:56.0	mcmil139	Show me line up 1234	getTrainLineup	Google	
2018-03-31 20:40:01.0	mcmil139	whats my position	getEmpPosition	Google	
2018-03-31 20:45:57.0	mcmil139	show me lineup 5678	getTrainLineup	Google	
2018-03-31 20:46:36.0	mcmil139	What's my current position	getEmpPosition	Google	
2018-03-31 20:48:59.0	mcmil139	whats my position	getEmpPosition	Google	

# What's left to do?

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- Several bug fixes on log report generating
- Refactor several node scripts
- Provide additional conversation paths and widen scope of intent statements
- Connect IDs from accounts in different system parts in database
- Design day and project video



# Questions?

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